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(FILE 'USPAT' ENTERED AT 12:29:55 ON 04 JAN 95)

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L1 6906 S (FREE(2A)FALL### OR DROPPABLE)

L2 67 S L1 AND (ACCELEROMETER OR GRAVITY METER OR ACCELERATION(2  
A) (

L3 7 S L2 AND LASER

L4 2 S L2 AND INTERFERENCE(2A) (FRING##)

=> d 1-

1. 4,992,656, Feb. 12, 1991, Rotation, acceleration, and gravity sensors using quantum-mechanical matter-wave interferometry with neutral atoms and molecules; John F. Clauser, 250/251; 73/382G; 250/256; 324/117R [IMAGE AVAILABLE]

2. 4,419,891, Dec. 13, 1983, Support gravity measurement instrument; Alva L. Browning, 73/382G, 517R [IMAGE AVAILABLE]

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(FILE 'HOME' ENTERED AT 17:31:21 ON 27 DEC 94)

FILE 'USPAT' ENTERED AT 17:31:39 ON 27 DEC 94

L1 135748 S GRAVITY  
L2 3633 S L1 AND LASER  
L3 232 S L2 AND OPTICAL(2A) (FIBER)  
L4 165 S L3 AND REFLECT###  
L5 128 S L4 AND DETECT###  
DEL L6  
L6 44 S L5 AND (INTERFERENCE OR INTERFEROMETER##)  
=> d 1-

1. 5,367,175, Nov. 22, 1994, Method of measuring liquid level with a thermal interface \*\*detection\*\*; Lloyd C. Bobb, 250/577; 73/293; 250/227.14, 904 [IMAGE AVAILABLE]

2. 5,321,718, Jun. 14, 1994, Frequency converted \*\*laser\*\* diode and lens system therefor; Robert G. Waarts, et al., 372/108; 359/326, 328, 333, 344, 346; 372/21, 22, 23, 43, 50, 99, 101 [IMAGE AVAILABLE]

3. 5,291,014, Mar. 1, 1994, Passive safety device using optical signals for controlling an airbag system of a vehicle, method for optically triggering the passive safety device, and optomechanical acceleration sensor; Uwe Brede, et al., 250/227.21, 231.1; 280/735 [IMAGE AVAILABLE]

4. 5,286,963, Feb. 15, 1994, Projection exposure apparatus and method, a semiconductor device manufacturing system and method, and a semiconductor device manufactured by illuminating an original having a circuit pattern when the original and a wafer are in a focused state; Makoto Torigoe, 250/201.2; 355/53 [IMAGE AVAILABLE]

5. 5,274,232, Dec. 28, 1993, Method and apparatus for manipulating atoms, ions or molecules and for measuring physical quantities using stimulated raman transitions; Steven Chu, et al., 250/251; 73/382R [IMAGE AVAILABLE]

6. 5,274,231, Dec. 28, 1993, Method and apparatus for manipulating atoms, ions or molecules and for measuring physical quantities using stimulated Raman transitions; Steven Chu, et al., 250/251; 73/382R; 250/505.1 [IMAGE AVAILABLE]

7. 5,208,819, May 4, 1993, Optical source with frequency locked to an in-fiber grating resonator; David R. Huber, 372/32, 29, 38 [IMAGE AVAILABLE]

8. 5,178,153, Jan. 12, 1993, Fluid flow sensing apparatus for in vivo and industrial applications employing novel differential \*\*optical\*\* \*\*fiber\*\* pressure sensors; Robert E. Einzig, 128/692; 73/861.42, 861.52; 128/666, 667, 673; 356/345, 352 [IMAGE AVAILABLE]

9. 5,112,126, May 12, 1992, Apparatuses and methods for making geophysical measurements useful in determining the deflection of the vertical; Peter Graebner, 356/141.5; 33/283, 304, 306, 309; 356/148, 149, 250 [IMAGE AVAILABLE]

10. 5,090,803, Feb. 25, 1992, Optical coordinate transfer assembly; Lawrence L. Ames, et al., 356/139.03, 139.06, 152.3; 359/529 [IMAGE AVAILABLE]

11. 5,079,958, Jan. 14, 1992, Sensor having a cantilever; Tsugio Takase, et al., 73/862.625, 24.03, 150R, 862.61, 862.639 [IMAGE AVAILABLE]
12. 5,079,845, Jan. 14, 1992, Dual readout analog/digital magnetic compass; Weldon L. Childers, 33/363K, 355R, 364 [IMAGE AVAILABLE]
13. 5,061,039, Oct. 29, 1991, Dual axis translation apparatus and system for translating an optical beam and related method; Kelly Cassidy, 359/894; 74/479MF, 479R; 269/73; 356/440; 359/896 [IMAGE AVAILABLE]
14. 5,020,411, Jun. 4, 1991, Mobile assault logistic kinetmatic engagement device; Larry Rowan, 89/1.11; 60/203.1; 89/8; 376/319 [IMAGE AVAILABLE]
15. 5,018,131, May 21, 1991, Optical switch; Govind Shah, et al., 359/159, 154; 385/18 [IMAGE AVAILABLE]
16. 5,017,009, May 21, 1991, Scattered total internal reflectance immunoassay system; Ernest G. Schutt, et al., 356/338; 422/82.05; 436/527, 807 [IMAGE AVAILABLE]
17. 5,005,005, Apr. 2, 1991, Fiber optic probe system; Charles E. Brossia, et al., 340/604; 250/573; 340/583, 605, 619 [IMAGE AVAILABLE]
18. 5,004,913, Apr. 2, 1991, Remote measurement of physical variables with fiber optic systems - methods, materials and devices; Marcos Kleinerman, 250/227.21; 73/293, 714; 250/227.23, 231.1, 458.1; 374/131, 161 [IMAGE AVAILABLE]
19. 4,979,821, Dec. 25, 1990, Cuvette for receiving liquid sample; Ernest G. Schutt, et al., 356/246; 359/896; 422/82.05; 436/527, 807 [IMAGE AVAILABLE]
20. 4,895,574, Jan. 23, 1990, Piezoelectric motivator for prosthetic devices; Larry Rosenberg, 623/24, 27, 57 [IMAGE AVAILABLE]
21. 4,875,063, Oct. 17, 1989, Electrostatic recording apparatus; Hiroyuki Idenawa, et al., 346/160.1, 153.1, 160 [IMAGE AVAILABLE]
22. 4,873,989, Oct. 17, 1989, Fluid flow sensing apparatus for in vivo and industrial applications employing novel \*\*optical\*\* \*\*fiber\*\* pressure sensors; Robert E. Einzig, 128/692; 73/861.42, 861.52; 356/345, 352 [IMAGE AVAILABLE]
23. 4,829,821, May 16, 1989, \*\*Optical\*\* \*\*fiber\*\* accelerometer; Edward F. Carome, 73/516LM, 517R; 250/227.27 [IMAGE AVAILABLE]
24. 4,814,829, Mar. 21, 1989, Projection exposure apparatus; Masao Kosugi, et al., 355/43, 53 [IMAGE AVAILABLE]
25. 4,799,752, Jan. 24, 1989, Fiber optic gradient hydrophone and method of using same; Edward F. Carome, 385/12; 73/655, 657; 250/227.19; 356/345, 349; 359/900; 367/149, 165, 166; 385/42 [IMAGE AVAILABLE]
26. 4,784,454, Nov. 15, 1988, \*\*Optical\*\* \*\*fiber\*\* and \*\*laser\*\* interface device; Richard B. Dyott, 385/31; 359/494; 372/43; 385/39, 49, 88 [IMAGE AVAILABLE]

27. 4,708,480, Nov. 24, 1987, Solid-state optical \*\*interferometer\*\*;  
Takao Sasayama, et al., 356/350 [IMAGE AVAILABLE]
28. 4,697,876, Oct. 6, 1987, Fiber-optic rotation sensor; Richard B.  
Dyott, 385/12; 250/227.17, 227.19; 356/149, 350, 351; 385/11, 42, 123  
[IMAGE AVAILABLE]
29. 4,671,113, Jun. 9, 1987, Fiber optic accelerometer; Edward F.  
Carome, 73/516LM, 517R, 705; 250/227.19 [IMAGE AVAILABLE]
30. 4,669,814, Jun. 2, 1987, Single mode, single polarization  
\*\*optical\*\* \*\*fiber\*\* with accessible guiding region and method of  
forming directional coupler using same; Richard B. Dyott, 385/42; 65/403,  
408; 359/900; 385/30, 50, 51, 123 [IMAGE AVAILABLE]
31. 4,668,264, May 26, 1987, Method for making self-aligning \*\*optical\*\*  
\*\*fiber\*\* with accessible guiding region; Richard B. Dyott, 65/403, 410;  
385/50, 51, 127 [IMAGE AVAILABLE]
32. 4,639,138, Jan. 27, 1987, Fiber-optic rotation rate sensor having  
dual \*\*interferometer\*\* loops; James M. Martin, et al., 356/350 [IMAGE  
AVAILABLE]
33. 4,613,752, Sep. 23, 1986, Fiber optic force measuring device;  
Charles M. Davis, 250/227.19; 73/515, 516LM, 653; 356/345; 385/13 [IMAGE  
AVAILABLE]
34. 4,589,725, May 20, 1986, \*\*Optical\*\*--\*\*fiber\*\* directional coupler  
using boron oxide as interstitial material; Richard B. Dyott, 385/42;  
65/400, 403, 410; 385/30, 141 [IMAGE AVAILABLE]
35. 4,585,948, Apr. 29, 1986, Non-scanning integrated optical system  
with wide field of view search capability; Richard T. Schneider, et al.,  
250/208.1; 53/329.3; 250/216; 359/619; 364/516 [IMAGE AVAILABLE]
36. 4,568,408, Feb. 4, 1986, Fiber optic energy sensor and optical  
demodulation system and methods of making same; Donald Schmadel, et al.,  
156/626, 173, 627, 633, 655, 659.1, 663 [IMAGE AVAILABLE]
37. 4,560,286, Dec. 24, 1985, Optical temperature measurement techniques  
utilizing phosphors; Kenneth A. Wickersheim, 374/131; 128/736; 250/461.1;  
374/141, 159 [IMAGE AVAILABLE]
38. 4,468,091, Aug. 28, 1984, Fiber optic energy sensor and demodulation  
system and method of making same; Donald Schmadel, et al., 385/5, 4, 12,  
128 [IMAGE AVAILABLE]
39. 4,448,547, May 15, 1984, Optical temperature measurement technique  
utilizing phosphors; Kenneth A. Wickersheim, 374/131; 128/736; 250/337,  
461.1; 374/121, 137, 141, 159 [IMAGE AVAILABLE]
40. 4,360,272, Nov. 23, 1982, Fiber optic energy sensor and optical  
demodulation system and methods of making same; Donald Schmadel, et al.,  
356/352, 35.5; 359/577 [IMAGE AVAILABLE]
41. 4,269,506, May 26, 1981, Apparatus for measuring the influence of  
physical parameters on the length of a path; Mark Johnson, et al., 356/5;

73/800; 359/333; 374/102 [IMAGE AVAILABLE]

42. 4,161,500, Jul. 17, 1979, Process for low attenuation methacrylate  
\*\*optical\*\* \*\*fiber\*\*; Henry M. Schleinitz, et al., 264/1.29, 2.7, 174;  
428/373; 526/329.7 [IMAGE AVAILABLE]

43. 4,087,159, May 2, 1978, Self imaging system using a waveguide;  
Reinhard Ulrich, 385/129, 39, 115, 120 [IMAGE AVAILABLE]

44. 4,050,895, Sep. 27, 1977, Optical analytical device, waveguide and  
method; Edgar E. Hardy, et al., 436/527; 250/227.14; 356/445; 359/900;  
385/12; 422/86, 98; 428/392; 436/534, 805, 807 [IMAGE AVAILABLE]  
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23. 4,829,821, May 16, 1989, \*\*Optical\*\* \*\*fiber\*\* accelerometer; Edward  
F. Carome, 73/516LM, 517R; 250/227.27 [IMAGE AVAILABLE]  
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